SESSION 3.5

ITS CABINET MONITOR SYSTEM

CLYDE NEEL



Model 212 CMU Versions

	<u>A</u>	<u>B</u>	<u>C</u>	<u>-208</u>	<u>-210</u>
CONFLICTING PHASES	-	F	F	-	F
FLASHER UNIT	-	F	F	-	-
SERIAL BUS #1	F	F	F	-	-
INDICATION ERROR	-	F	-	-	F*
(MULTI/LACK/CLRNC)					

VERSION: A – RAMP METERING(PDA 6) -208 – Ver A, w/o SB#1

B – TRAFFIC SIGNALS(PDA 5) -210 – Ver C, w/o SB#1

C - TRAFFIC SIGNALS, "CAL"

ALL VERSIONS MONITOR:

Power Supplies Monitor Error FTR Coils

Logic Signal Error Flash/Door Switches AC Line

Circuit Breakers



PURPOSE

- . MONITOR ITS CABINET CONDITIONS
- . CAUSE TRANSFER TO SAFE CONTROL MODE
- . REPORT DIAGNOSTIC INFORMATION

MONITORING FUNCTIONS

- SIGNAL
 - CONFLICTING CHANNELS
 - MULTIPLE CHANNEL INDICATIONS
 - LACK OF CHANNEL INDICATIONS
 - SHORT/LONG YELLOW
- CABINET POWER SUPPLIES
- SERIAL BUS ERROR



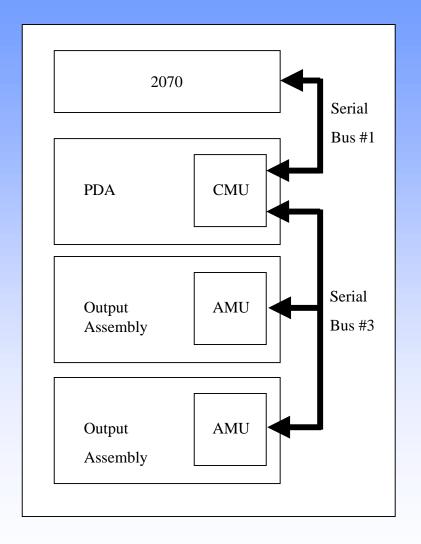
MONITOR FUNCTIONS (CONTINUED)

- MONITOR ERROR
- FLASH TRANSFER RELAY FAILURE
- LOGIC SIGNAL ERROR
- FLASHER UNIT OUTPUTS
- CIRCUIT BREAKER / MERCURY CONTACTOR
- POLICE / PDS FLASH
- AC LINE

COMPONENTS

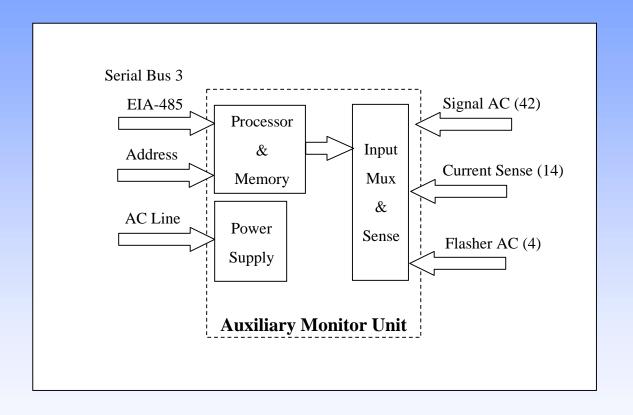
- AUXILIARY MONITOR UNIT (MODEL 214 AMU)
- CABINET MONITOR UNIT (MODEL 212 CMU)
- SERIAL BUS #1 AND #3
- CONTROL / SERIAL BUS HARNESSES
- DC POWER / COMM ASSEMBLY
- CURRENT SENSE COILS

MONITOR SYSTEM BLOCK DIAGRAM





AMU BLOCK DIAGRAM

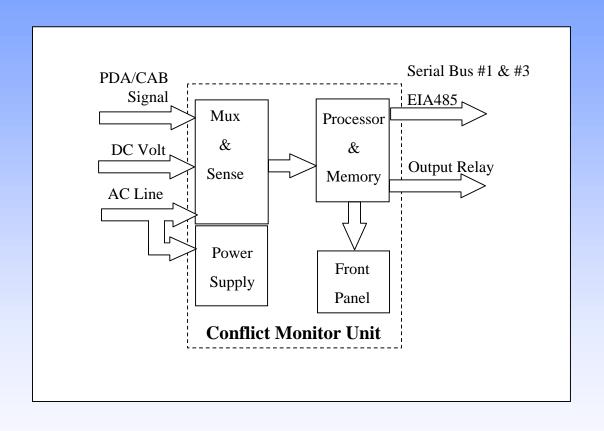




AMU FRONT PANEL FEATURES

- INDICATORS
 - DC POWER
 - COMM ACTIVE
 - ERROR
- RESET PUSHBUTTON
- HAND PULL

CMU BLOCK DIAGRAM





CMU FRONT PANEL FEATURES

- POWER INDICATOR
- FAULT / STATUS INDICATORS
- DATAKEY
- RESET PUSHBUTTON
- EIA232 SERIAL PORT
- HAND PULL

CMU FAULT / STATUS INDICATORS

- 24VDC
- 12VDC
- CONFLICT
- LACK OF INDICATION
- MULTIPLE INDICATIONS
- CONTROLLER/LOCAL FLASH
- CLEARANCE
- FIELD CHECK
- SB#1 & SB#2 ERROR
- DIAGNOSTIC



DATAKEY PROGRAMMING

- CHANNEL ENABLES/ASSIGNMENTS
- CONFLICTING CHANNELS
- ENABLE MONITORING
 - LACK OF INDICATION
 - MULTIPLE INDICATION
 - SHORT/LONG YELLOW